

## Claims 1-58 (canceled)

59. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port;
- (c) an input array of actuated mirrors; and
- (d) an output array of actuated mirrors;
- (e) said input and output arrays of actuated mirrors configured for switching

an optical beam from an input port to an output port;

(f) said optical switch configured for separating at least one wavelength component of said optical beam from at least one other wavelength component of said optical beam and switching said at least one wavelength component from an input port to an output port.

60. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port;
- (c) an input array of actuated mirrors; and
- (d) an output array of actuated mirrors;
- (e) said input and output arrays of actuated mirrors configured for switching

an optical beam from at least one said input port to at least one said output port;

(f) said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam and switching said at least one wavelength component from at least one said input port to at least one said output port.

61. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port;
- (c) an input array of actuated mirrors; and
- (d) an output array of actuated mirrors;

(e) said input and output arrays of actuated mirrors configured for switching an optical beam from any said input port to any said output port;

(f) said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam and switching said at least one wavelength component from any said input port to any said output port.

62. (currently amended): An optical switch, comprising:

(a) at least one input port;

(b) at least one output port;

(c) at least one input array of actuated mirrors; and

(d) at least one output array of actuated mirrors;

(e) said input and output arrays of actuated mirrors configured for switching an optical beam from an input port to an output port;

(f) said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam and switching said at least one wavelength component from an input port to an output port.

63. (currently amended): An optical switch, comprising:

(a) at least one input port;

(b) at least one output port;

(c) at least one input array of actuated mirrors; and

(d) at least one output array of actuated mirrors;

(e) said input and output arrays of actuated mirrors configured for switching an optical beam from at least one said input port to at least one said output port;

(f) said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam and switching said at least one wavelength component from at least one said input port to at least one said output port.

64. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port;
- (c) at least one input array of actuated mirrors; and
- (d) at least one output array of actuated mirrors;
- (e) said input and output arrays of actuated mirrors configured for switching an optical beam from any said input port to any said output port;
- (f) said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam and switching said at least one wavelength component from any said input port to any said output port.

65. (previously presented): An optical switch as recited in claim 59, 60, 61, 62, 63, or 64, further comprising means for positioning said optical beam onto at least one input array of actuated mirrors.

66. (previously presented): An optical switch as recited in claim 65, wherein said means for positioning comprises at least one lens.

67. (previously presented): An optical switch as recited in claim 59, 60, 61, 62, 63, or 64, further comprising at least one imaging component configured for positioning said optical beam onto at least one input array of actuated mirrors.

68. (previously presented): An optical switch as recited in claim 67, wherein at least one imaging component comprises at least one lens.

69. (previously presented): An optical switch as recited in claim 59, 60, 61, 62, 63, or 64, wherein said optical switch is configured for a specific mirror in at least one input array of actuated mirrors to receive an optical beam from a corresponding one specific input port.

70. (previously presented): An optical switch as recited in claim 59, 60, 61, 62, 63, or 64, wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one output array of actuated mirrors.

71. (previously presented): An optical switch as recited in claim 59, 60, 61, 62, 63, or 64,

wherein said optical switch is configured for a specific mirror in at least one input array of actuated mirrors to receive an optical beam from a corresponding one specific input port; and

wherein said optical switch is further configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one output array of actuated mirrors.

72. (previously presented): An optical switch as recited in claim 59, 60, 61, 62, 63, or 64, wherein each mirror in at least one input array of actuated mirrors is configured to steer an incident optical beam to any, but not more than one for a given setting, mirror in at least one output array of actuated mirrors.

73. (previously presented): An optical switch as recited in claim 59, 60, 61, 62, 63, or 64, wherein each output mirror in at least one output array of actuated mirrors can be set to receive an optical beam from any, but not more than one for a given setting, mirror in at least one input array of actuated mirrors.

74. (previously presented): An optical switch as recited in claim 59, 60, 61, 62, 63, or 64,

wherein each mirror in at least one input array of actuated mirrors is configured to steer an incident optical beam to any, but not more than one for a given setting, mirror in at least one output array of actuated mirrors; and

wherein each output mirror in at least one output array of actuated mirrors can be set to receive an optical beam from any, but not more than one for a given setting,

mirror in at least one input array of actuated mirrors.

75. (previously presented): An optical switch as recited in claim 59, 60, 61, 62, 63, or 64, wherein at least one array of actuated mirrors comprises a two-dimensional array.

76. (previously presented): An optical switch as recited in claim 59, 60, 61, 62, 63, or 64, wherein at least one output array of actuated mirrors is spatially separated from at least one input array of actuated mirrors.

77. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port;
- (c) an input array of actuated mirrors;
- (d) an output array of actuated mirrors; and
- (e) at least one imaging component configured for positioning an optical

beam onto said input array of actuated mirrors;

(f) wherein said optical switch is configured for a specific mirror in said input array of actuated mirrors to receive an optical beam from a corresponding one specific input port; and

(g) wherein said optical switch is further configured for a specific output port to receive an optical beam from a corresponding one specific mirror in said output array of actuated mirrors; and

(f) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam and switching said at least one wavelength component from an input port to an output port.

78. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port;

- (c) ~~a~~ at least one input array of actuated mirrors;
- (d) at least one output array of actuated mirrors; and
- (e) at least one imaging component configured for positioning an optical beam onto at least one input array of actuated mirrors;
- (f) wherein said optical switch is configured for a specific mirror in an input array of actuated mirrors to receive an optical beam from a corresponding one specific input port; and
- (g) wherein said optical switch is further configured for a specific output port to receive an optical beam from a corresponding one specific mirror in an output array of actuated mirrors;
- (h) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam and switching said at least one wavelength component from an input port to an output port.

79. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port;
- (c) ~~a~~ at least one input array of actuated mirrors;
- (d) at least one output array of actuated mirrors; and
- (e) at least one imaging component configured for positioning an optical beam onto at least one input array of actuated mirrors;
- (f) wherein said optical switch is configured for a specific mirror in at least one input array of actuated mirrors to receive an optical beam from a corresponding one specific input port; and
- (g) wherein said optical switch is further configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one output array of actuated mirrors;
- (h) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam and switching said at least one wavelength component

from an input port to an output port.

80. (previously presented): An optical switch as recited in claim 77, 78, or 79, wherein at least one imaging component comprises at least one lens.

81. (previously presented): An optical switch as recited in claim 77, 78, or 79, wherein each mirror in at least one input array of actuated mirrors is configured to steer an incident optical beam to any, but not more than one for a given setting, mirror in at least one output array of actuated mirrors.

82. (previously presented): An optical switch as recited in claim 77, 78, or 79, wherein each output mirror in at least one output array of actuated mirrors can be set to receive an optical beam from any, but not more than one for a given setting, mirror in at least one input array of actuated mirrors.

83. (previously presented): An optical switch as recited in claim 77, 78, or 79, wherein each mirror in at least one input array of actuated mirrors is configured to steer an incident optical beam to any, but not more than one for a given setting, mirror in at least one output array of actuated mirrors; and

wherein each output mirror in at least one output array of actuated mirrors can be set to receive an optical beam from any, but not more than one for a given setting, mirror in at least one input array of actuated mirrors.

84. (previously presented): An optical switch as recited in claim 77, 78, or 79, wherein at least one array of actuated mirrors comprises a two-dimensional array.

85. (previously presented): An optical switch as recited in claim 77, 78, or 79, wherein at least one output array of actuated mirrors is spatially separated from at least one input array of actuated mirrors.

86. (current amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port;
- (c) an input array of actuated mirrors;
- (d) an output array of actuated mirrors; and
- (e) at least one imaging component configured for positioning an optical

beam onto said input array of actuated mirrors;

(f) wherein each mirror in said input array of actuated mirrors is configured to steer an incident optical beam to any, but not more than one for a given setting, mirror in said output array of actuated mirrors; and

(g) wherein each output mirror in said output array of actuated mirrors can be set to receive an optical beam from any, but not more than one for a given setting, mirror in said input array of actuated mirrors;

(h) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam and switching said at least one wavelength component from an input port to an output port.

87. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port;
- (c) at least one input array of actuated mirrors;
- (d) at least one output array of actuated mirrors; and
- (e) at least one imaging component configured for positioning an optical

beam onto at least one input array of actuated mirrors;

(f) wherein each mirror in an input array of actuated mirrors is configured to steer an incident optical beam to any, but not more than one for a given setting, mirror in an output array of actuated mirrors; and

(g) wherein each output mirror in an output array of actuated mirrors can be set to receive an optical beam from any, but not more than one for a given setting, mirror in an input array of actuated mirrors;



(h) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam and switching said at least one wavelength component from an input port to an output port.

88. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port;
- (c) at least one input array of actuated mirrors;
- (d) at least one output array of actuated mirrors; and
- (e) at least one imaging component configured for positioning an optical

beam onto at least one input array of actuated mirrors;

(f) wherein each mirror in at least one input array of actuated mirrors is configured to steer an incident optical beam to any, but not more than one for a given setting, mirror in at least one output array of actuated mirrors; and

(g) wherein each output mirror in at least one output array of actuated mirrors can be set to receive an optical beam from any, but not more than one for a given setting, mirror in at least one input array of actuated mirrors;

(h) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam and switching said at least one wavelength component from an input port to an output port.

89. (previously presented): An optical switch as recited in claim 86, 87, or 88, wherein at least one imaging component comprises at least one lens.

90. (previously presented): An optical switch as recited in claim 86, 87, or 88, wherein at least one array of actuated mirrors comprises a two-dimensional array.

91. (previously presented): An optical switch as recited in claim 86, 87, or 88, wherein at least one output array of actuated mirrors is spatially separated from at least

one input array of actuated mirrors.

92. (previously presented): An optical switch as recited in claim 86, 87, or 88, wherein said optical switch is configured for a specific mirror in at least one input array of actuated mirrors to receive an optical beam from a corresponding one specific input port.

93. (previously presented): An optical switch as recited in claim 86, 87, or 88, wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one output array of actuated mirrors.

94. (previously presented): An optical switch as recited in claim 86, 87, or 88, wherein said optical switch is configured for a specific mirror in at least one input array of actuated mirrors to receive an optical beam from a corresponding one specific input port; and

wherein said optical switch is further configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one output array of actuated mirrors.

95. (previously presented): An optical switch, comprising:  
an array of actuated mirrors configured for switching an optical beam from an input port to an output port; and  
at least one imaging component configured for positioning said optical beam onto at least one array of actuated mirrors;  
said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam;  
said optical switch configured for switching said at least one wavelength component from an input port to an output port.

96. (previously presented): An optical switch, comprising:  
an array of actuated mirrors configured for switching an optical beam from at least one input port to at least one output port; and  
at least one imaging component configured for positioning said optical beam onto at least one array of actuated mirrors;  
said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam;  
said optical switch configured for switching said at least one wavelength component from at least one input port to at least one output port.

97. (previously presented): An optical switch, comprising:  
an array of actuated mirrors configured for switching an optical beam from any input port to any output port; and  
at least one imaging component configured for positioning said optical beam onto at least one array of actuated mirrors;  
said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam;  
said optical switch configured for switching said at least one wavelength component from any input port to any output port.

98. (previously presented): An optical switch, comprising:  
at least one array of actuated mirrors configured for switching an optical beam from an input port to an output port; and  
at least one imaging component configured for positioning said optical beam onto at least one array of actuated mirrors;  
said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam;  
said optical switch configured for switching said at least one wavelength

component from an input port to an output port.

99. (previously presented): An optical switch, comprising:

at least one array of actuated mirrors configured for switching an optical beam from at least one input port to at least one output port; and

at least one imaging component configured for positioning said optical beam onto at least one array of actuated mirrors;

said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam;

said optical switch configured for switching said at least one wavelength component from at least one input port to at least one output port.

100. (previously presented): An optical switch, comprising:

at least one array of actuated mirrors configured for switching an optical beam from any input port to any output port; and

at least one imaging component configured for positioning said optical beam onto at least one array of actuated mirrors;

said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam;

said optical switch configured for switching said at least one wavelength component from any input port to any output port.

101. (previously presented): An optical switch as recited in claim 95, 96, 97, 98, 99 or 100, wherein said imaging component comprises at least one lens.

102. (previously presented): An optical switch, comprising:

an array of actuated mirrors configured for switching an optical beam from an input port to an output port;

wherein said optical switch is configured for a specific mirror in at least one array

of actuated mirrors to receive an optical beam from a corresponding one specific input port;

wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

wherein said optical switch is configured for switching said at least one wavelength component from an input port to an output port.

103. (previously presented): An optical switch, comprising:

an array of actuated mirrors configured for switching an optical beam from at least one input port to at least one output port;

wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;

wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

wherein said optical switch is configured for switching said at least one wavelength component from at least one input port to at least one output port.

104. (previously presented): An optical switch, comprising:

an array of actuated mirrors configured for switching an optical beam from any input port to any output port;

wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;

wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

wherein said optical switch is configured for switching said at least one wavelength component from any input port to any output port.

105. (previously presented): An optical switch, comprising:  
at least one array of actuated mirrors configured for switching an optical beam from an input port to an output port;  
wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;  
wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and  
wherein said optical switch is configured for switching said at least one wavelength component from an input port to an output port.

106. (currently amended): An optical switch, comprising:  
at least one array of actuated mirrors configured for switching an optical beam from at least one input port to at least one output port;  
wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;  
wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and  
wherein said optical switch is configured for switching said at least one wavelength component from at least one input port to at least one output port.

107. (previously presented): An optical switch, comprising:  
at least one array of actuated mirrors configured for switching an optical beam from any input port to any output port;  
wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;  
wherein said optical switch is configured for separating at least one wavelength

component in said optical beam from at least one other wavelength component of said optical beam; and

wherein said optical switch is configured for switching said at least one wavelength component from any input port to any output port.

108. (currently amended): An optical switch, comprising:

an array of actuated mirrors configured for switching an optical beam from an input port to an output port;

wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one array of actuated mirrors;

wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

wherein said optical switch is configured for switching said at least one wavelength component from an input port to an output port.

109. (previously presented): An optical switch, comprising:

an array of actuated mirrors configured for switching an optical beam from at least one input port to at least one output port;

wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one array of actuated mirrors;

wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

wherein said optical switch is configured for switching said at least one wavelength component from at least one input port to at least one output port.

110. (previously presented): An optical switch, comprising:

an array of actuated mirrors configured for switching an optical beam from any

input port to any output port;

wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one array of actuated mirrors;

wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

wherein said optical switch is configured for switching said at least one wavelength component from any input port to any output port.

111. (previously presented): An optical switch, comprising:

at least one array of actuated mirrors configured for switching an optical beam from an input port to an output port;

wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one array of actuated mirrors;

wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

wherein said optical switch is configured for switching said at least one wavelength component from an input port to an output port.

112. (previously presented): An optical switch, comprising:

at least one array of actuated mirrors configured for switching an optical beam from at least one input port to at least one output port;

wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one array of actuated mirrors;

wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and



wherein said optical switch is configured for switching said at least one wavelength component from at least one input port to at least one output port.

113. (previously presented): An optical switch, comprising:  
at least one array of actuated mirrors configured for switching an optical beam from any input port to any output port;  
wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one array of actuated mirrors;  
wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and  
wherein said optical switch is configured for switching said at least one wavelength component from any input port to any output port.

114. (previously presented): An optical switch, comprising:  
an array of actuated mirrors configured for switching an optical beam from an input port to an output port;  
wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;  
wherein said optical switch is further configured for a specific output port to receive an optical beam from a corresponding one specific mirror in said at least one array of actuated mirrors;  
wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and  
wherein said optical switch is configured for switching said at least one wavelength component from an input port to an output port.

115. (currently amended): An optical switch, comprising:  
an array of actuated mirrors configured for switching an optical beam from at least one input port to at least one output port;  
wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;  
wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in said at least one array of actuated mirrors;  
wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and  
wherein said optical switch is configured for switching said at least one wavelength component from at least one input port to at least one output port.

116. (previously presented): An optical switch, comprising:  
an array of actuated mirrors configured for switching an optical beam from any input port to any output port;  
wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;  
wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in said at least one array of actuated mirrors;  
wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and  
wherein said optical switch is configured for switching said at least one wavelength component from any input port to any output port.

117. (previously presented): An optical switch, comprising:  
at least one array of actuated mirrors configured for switching an optical beam from an input port to an output port;  
wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;  
wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in said at least one array of actuated mirrors;  
wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and  
wherein said optical switch is configured for switching said at least one wavelength component from an input port to an output port.

118. (previously presented): An optical switch, comprising:  
at least one array of actuated mirrors configured for switching an optical beam from at least one input port to at least one output port;  
wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;  
wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in said at least one array of actuated mirrors;  
wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and  
wherein said optical switch is configured for switching said at least one wavelength component from at least one input port to at least one output port.

119. (previously presented): An optical switch, comprising:

at least one array of actuated mirrors configured for switching an optical beam from any input port to any output port;

wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;

wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in said at least one array of actuated mirrors;

wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

wherein said optical switch is configured for switching said at least one wavelength component from any input port to any output port.

120. (previously presented): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port;
- (c) an array of actuated mirrors configured for switching an optical beam from an input port to an output port; and

- (d) at least one imaging component configured for positioning said optical beam onto at least one array of actuated mirrors;

- (e) said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam;

- (f) said optical switch configured for switching said at least one wavelength component from an input port to an output port.

121. (previously presented): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port;
- (c) an array of actuated mirrors configured for switching an optical beam from

at least one said input port to at least one said output port; and

(d) at least one imaging component configured for positioning said optical beam onto at least one array of actuated mirrors;

(e) said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam;

(f) said optical switch configured for switching said at least one wavelength component from at least one input port to at least one output port.

122. (previously presented): An optical switch, comprising:

(a) at least one input port;

(b) at least one output port;

(c) an array of actuated mirrors configured for switching an optical beam from any said input port to any said output port; and

(d) at least one imaging component configured for positioning said optical beam onto at least one array of actuated mirrors;

(e) said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam;

(f) said optical switch configured for switching said at least one wavelength component from any input port to any output port.

123. (previously presented): An optical switch, comprising:

(a) at least one input port;

(b) at least one output port;

(c) at least one array of actuated mirrors configured for switching an optical beam from an input port to an output port; and

(d) at least one imaging component configured for positioning said optical beam onto at least one array of actuated mirrors;

(e) said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said

optical beam;

(f) said optical switch configured for switching said at least one wavelength component from an input port to an output port.

124. (previously presented): An optical switch, comprising:

(a) at least one input port;

(b) at least one output port;

(c) at least one array of actuated mirrors configured for switching an optical beam from at least one said input port to at least one said output port; and

(d) at least one imaging component configured for positioning said optical beam onto at least one array of actuated mirrors;

(e) said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam;

(f) said optical switch configured for switching said at least one wavelength component from at least one input port to at least one output port.

125. (previously presented): An optical switch, comprising:

(a) at least one input port;

(b) at least one output port;

(c) at least one array of actuated mirrors configured for switching an optical beam from any said input port to any said output port; and

(d) at least one imaging component configured for positioning said optical beam onto at least one array of actuated mirrors;

(e) said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam;

(f) said optical switch configured for switching said at least one wavelength component from any input port to any output port.

126. (previously presented): An optical switch as recited in claim 120, 121, 122, 123, 124 or 125, wherein said imaging component comprises at least one lens.

127. (previously presented): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port; and
- (c) an array of actuated mirrors configured for switching an optical beam from an input port to an output port;
- (d) wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;
- (e) said optical switch configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam;
- (f) said optical switch configured for switching said at least one wavelength component from an input port to an output port.

128. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port; and
- (c) an array of actuated mirrors configured for switching an optical beam from at least one said input port to at least one said output port;
- (d) wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;
- (e) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and
- (f) wherein said optical switch is configured for switching said at least one wavelength component from at least one input port to at least one output port.

129. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port; and
- (c) an array of actuated mirrors configured for switching an optical beam from any said input port to any said output port;
- (d) wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;
- (e) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and
- (f) wherein said optical switch is configured for switching said at least one wavelength component from any input port to any output port.

130. (previously presented): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port; and
- (c) at least one array of actuated mirrors configured for switching an optical beam from an input port to an output port;
- (d) wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;
- (e) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and
- (f) wherein said optical switch is configured for switching said at least one wavelength component from an input port to an output port.

131. (previously presented): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port; and



(c) at least one array of actuated mirrors configured for switching an optical beam from at least one said input port to at least one said output port;

(d) wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;

(e) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

(f) wherein said optical switch is configured for switching said at least one wavelength component from at least one input port to at least one output port.

132. (currently amended): An optical switch, comprising:

(a) at least one input port;

(b) at least one output port; and

(c) at least one array of actuated mirrors configured for switching an optical beam from any said input port to any said output port;

(d) wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;

(e) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

(f) wherein said optical switch is configured for switching said at least one wavelength component from any input port to any output port.

133. (currently amended): An optical switch, comprising:

(a) at least one input port;

(b) at least one output port; and

(c) an array of actuated mirrors configured for switching an optical beam from an input port to an output port;

(d) wherein said optical switch is configured for a specific output port to

receive an optical beam from a corresponding one specific mirror in at least one array of actuated mirrors;

(e) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

(f) wherein said optical switch is configured for switching said at least one wavelength component from an input port to an output port.

134. (previously presented): An optical switch, comprising:

(a) at least one input port;

(b) at least one output port; and

(c) an array of actuated mirrors configured for switching an optical beam from at least one said input port to at least one said output port;

(d) wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one array of actuated mirrors;

(e) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

(f) wherein said optical switch is configured for switching said at least one wavelength component from at least one input port to at least one output port.

135. (currently amended): An optical switch, comprising:

(a) at least one input port;

(b) at least one output port; and

(c) an array of actuated mirrors configured for switching an optical beam from any said input port to any said output port;

(d) wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one array of actuated mirrors;

(e) wherein said optical switch is configured for separating at least one

wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

(f) wherein said optical switch is configured for switching said at least one wavelength component from any input port to any output port.

136. (currently amended): An optical switch, comprising:

(a) at least one input port;  
(b) at least one output port; and  
(c) at least one array of actuated mirrors configured for switching an optical beam from an input port to an output port;

(d) wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one array of actuated mirrors;

(e) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

(f) wherein said optical switch is configured for switching said at least one wavelength component from an input port to an output port.

137. (previously presented): An optical switch, comprising:

(a) at least one input port;  
(b) at least one output port; and  
(c) at least one array of actuated mirrors configured for switching an optical beam from at least one said input port to at least one said output port;

(d) wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one array of actuated mirrors;

(e) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

(f) wherein said optical switch is configured for switching said at least one

wavelength component from at least one input port to at least one output port.

138. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port; and
- (c) at least one array of actuated mirrors configured for switching an optical beam from any said input port to any said output port;
- (d) wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in at least one array of actuated mirrors;
- (e) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and
- (f) wherein said optical switch is configured for switching said at least one wavelength component from any input port to any output port.

139. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port; and
- (c) an array of actuated mirrors configured for switching an optical beam from an input port to an output port;
- (d) wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;
- (e) wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in said at least one array of actuated mirrors;
- (f) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and
- (g) wherein said optical switch is configured for switching said at least one

wavelength component from an input port to an output port.

140. (currently amended): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port; and
- (c) an array of actuated mirrors configured for switching an optical beam from at least one said input port to at least one said output port;
- (d) wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;
- (e) wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in said at least one array of actuated mirrors;
- (f) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and
- (g) wherein said optical switch is configured for switching said at least one wavelength component from at least one input port to at least one output port.

141. (previously presented): An optical switch, comprising:

- (a) at least one input port;
- (b) at least one output port; and
- (c) an array of actuated mirrors configured for switching an optical beam from any said input port to any said output port;
- (d) wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;
- (e) wherein said optical switch is ~~further~~ configured for a specific output port to receive an optical beam from a corresponding one specific mirror in said at least one array of actuated mirrors;
- (f) wherein said optical switch is configured for separating at least one

wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

(g) wherein said optical switch is configured for switching said at least one wavelength component from any input port to any output port.

142. (previously presented): An optical switch, comprising:

(a) at least one input port;  
(b) at least one output port; and  
(c) at least one array of actuated mirrors configured for switching an optical beam from an input port to an output port;

(d) wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;

(e) wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in said at least one array of actuated mirrors;

(f) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

(g) wherein said optical switch is configured for switching said at least one wavelength component from an input port to an output port.

143. (currently amended): An optical switch, comprising:

(a) at least one input port;  
(b) at least one output port; and  
(c) at least one array of actuated mirrors configured for switching an optical beam from at least one said input port to at least one said output port;

(d) wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;

(e) wherein said optical switch is configured for a specific output port to

receive an optical beam from a corresponding one specific mirror in said at least one array of actuated mirrors;

(f) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

(g) wherein said optical switch is configured for switching said at least one wavelength component from at least one input port to at least one output port.

144. (previously presented): An optical switch, comprising:

(a) at least one input port;

(b) at least one output port; and

(c) at least one array of actuated mirrors configured for switching an optical beam from any said input port to any said output port;

(d) wherein said optical switch is configured for a specific mirror in at least one array of actuated mirrors to receive an optical beam from a corresponding one specific input port;

(e) wherein said optical switch is configured for a specific output port to receive an optical beam from a corresponding one specific mirror in said at least one array of actuated mirrors;

(f) wherein said optical switch is configured for separating at least one wavelength component in said optical beam from at least one other wavelength component of said optical beam; and

(g) wherein said optical switch is configured for switching said at least one wavelength component from any input port to any output port.